

A Carbondale-cooled store . . . Wagoner-Marsh
Shoe Corporation, Akron, Ohio

CARBONDALE

UNIT AIR CONDITIONING

BUY air conditioning NOW and obtain a greater return on your investment.

Progressive executives of stores, shops, restaurants, and offices have already recognized that air conditioning is rapidly becoming a necessity like the modern automobile, the telephone, steam radiator, and bath tub.

NOW is the proper time, therefore, purely from an investment standpoint, for the enterprising owner to install air conditioning.

This bulletin describes Carbondale Unit Conditioners, which are recommended for restaurants, stores, offices, and for modernization of old buildings.

Modern business finds that AIR CONDITIONING PAYS



- Cool dining rooms get the summer business



- Draftsmen can do more and better work when they are comfortable



- Office workers are more efficient in a conditioned atmosphere



- Dancers too appreciate a comfortable temperature

"Ever since they air conditioned their store they have been getting our trade".

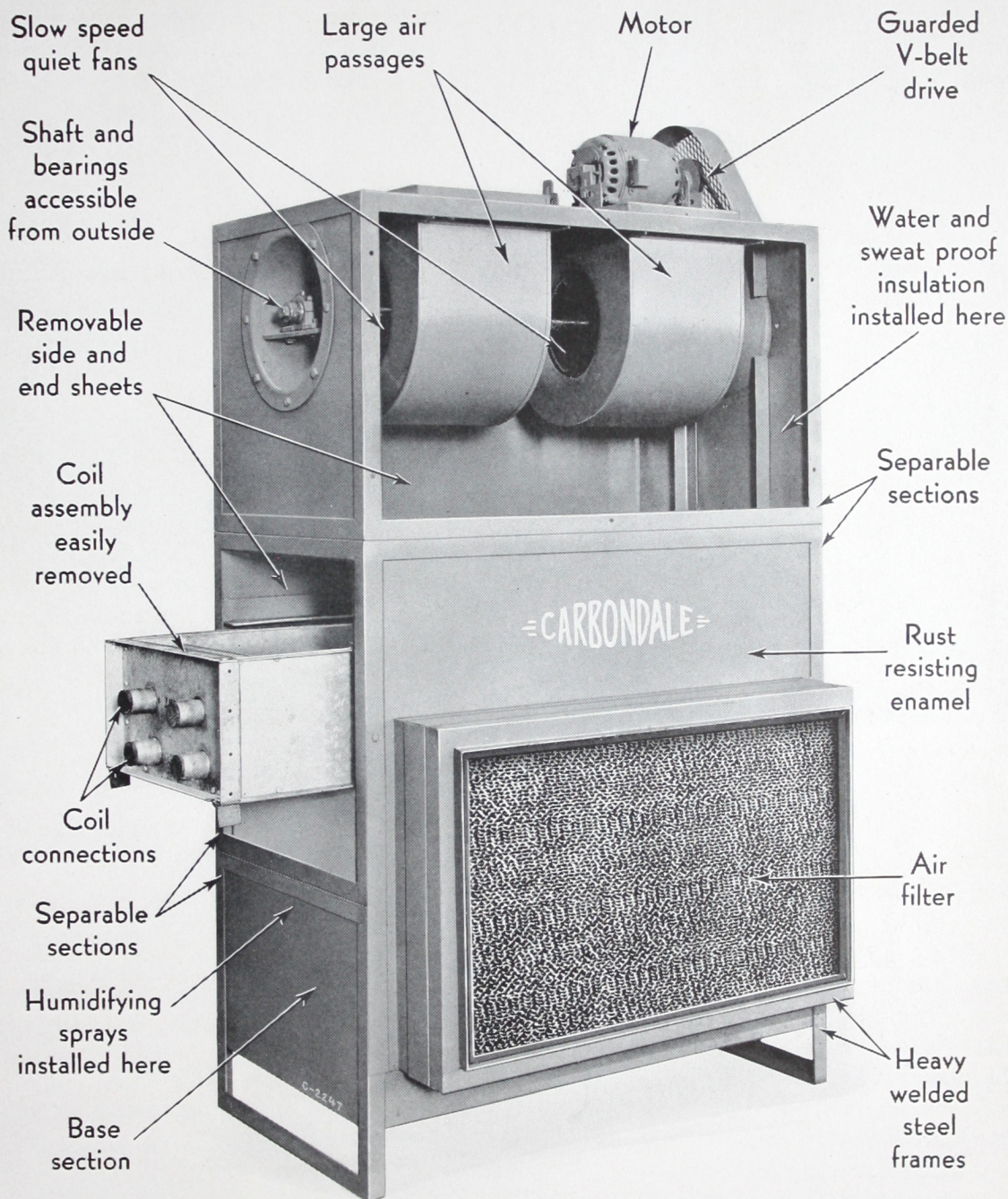
"We enjoy eating in that restaurant because it has air conditioning".

"I moved to this building because it is air conditioned".

Bits of conversation like the above, commonly heard these days, indicate the unmistakable trend. Carbondale conditioned the Hanover Savings Bank in New York in 1902, and the New York Stock Exchange trading floor in 1905. At that time, air conditioning was considered a luxury. The term "air conditioning" did not exist; it was called "air cooling".

Air conditioning will keep your store, office, or restaurant cool and comfortable. An increase in business during the hot summer months is bound to result, which is likely to "carry over" into the cooler months. Besides, all employees in offices and stores are enabled to work more efficiently in a healthful and invigorating atmosphere.

In many industries, air conditioning has demonstrated its value by improving quality, increasing production, and making possible the development of new manufacturing processes.



CARBONDALE UNIT AIR CONDITIONER



Carbondale Unit Air Conditioner with filter removed

CARBONDALE FEATURES

Carbondale Air Conditioning Units are built on field-tested standardized manufacturing designs. Each element is designed to perform its function in the most efficient and practical manner. The casing is divided into complete and separable sections, each containing an essential element designed and balanced to fit the particular requirements. One section contains the complete fan assembly with motor, another section the complete coil and humidifying assembly, and another section the base and air cleaning elements. Any one of these sections may be shipped and handled separately. The simplest possible installation results, giving a wide degree of flexibility in installation arrangement.

These units are designed to do a complete air conditioning job, including cooling and dehumidifying, heating and humidifying, as well as cleaning and air circulation. They are available with or without the humidifying and heating elements, as the conditions may require. Each unit is available in a range of air and coil capacities to suit almost any load characteristic, making it possible to obtain the same results as if the machine were specially designed for the job.

COILS—High-efficiency copper-finned type, with tested and guaranteed capacities.

CASINGS—Constructed of heavy steel frames, welded and coated inside with water-proof and sweat-proof insulation. The outside surfaces are finished in high-grade rust-resisting enamel to present a smooth and attractive appearance.

A Carbondale Suspended Room Cooler



FANS—Rugged construction, slow speed, and built with extra large bearings and oversize air passages for quiet operation. Fans are driven with quiet operating motors through guard-protected Worthington Multi-V-Drives.

HUMIDIFYING ELEMENTS—Spray type with hygrostat control and self-cleaning nozzles.

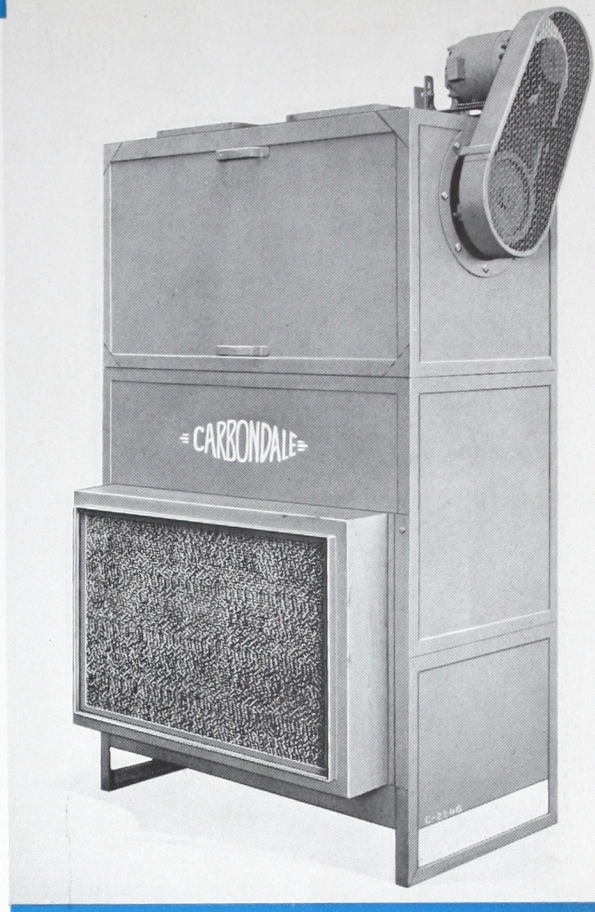
ACCESSIBILITY—All moving parts readily accessible, including coils, filters, and fan bearings, without dismantling the unit.

CONTROLS—Selected and designed for simplicity and reliability, as well as low operating cost.

COST OF OPERATION—Due to the flexibility of coil arrangement and high coil efficiency, Carbondale Units require the minimum compressor sizes, resulting in lower first cost and lower operating cost.

CAPACITIES—Units are available in sizes from 300 to 11,000 cu.ft. per min., and in refrigeration capacities from 2 to 50 tons.

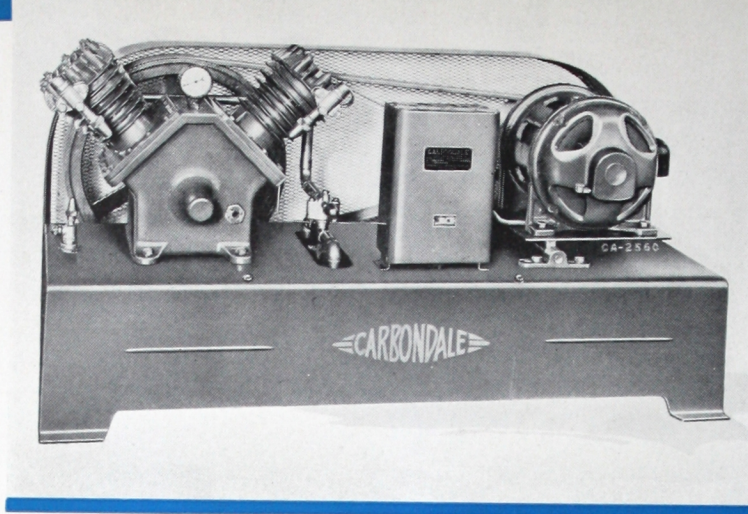
All sizes are available in the vertical floor-mounted or horizontal ceiling-suspended type. See table below for space requirements.



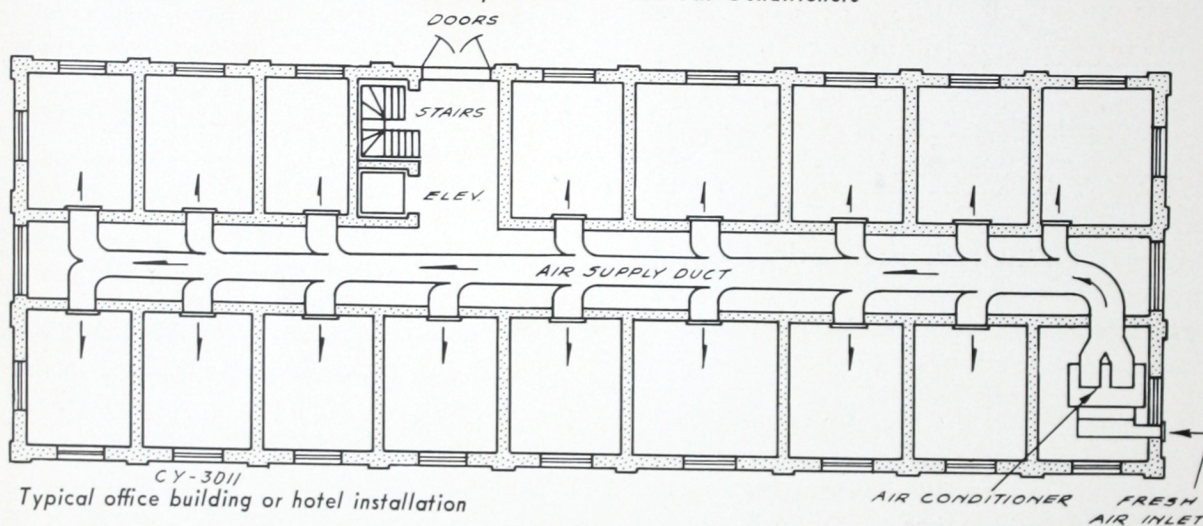
Carbondale Unit Air Conditioner with filter in place

SPACE REQUIREMENTS FOR UNIT AIR CONDITIONERS

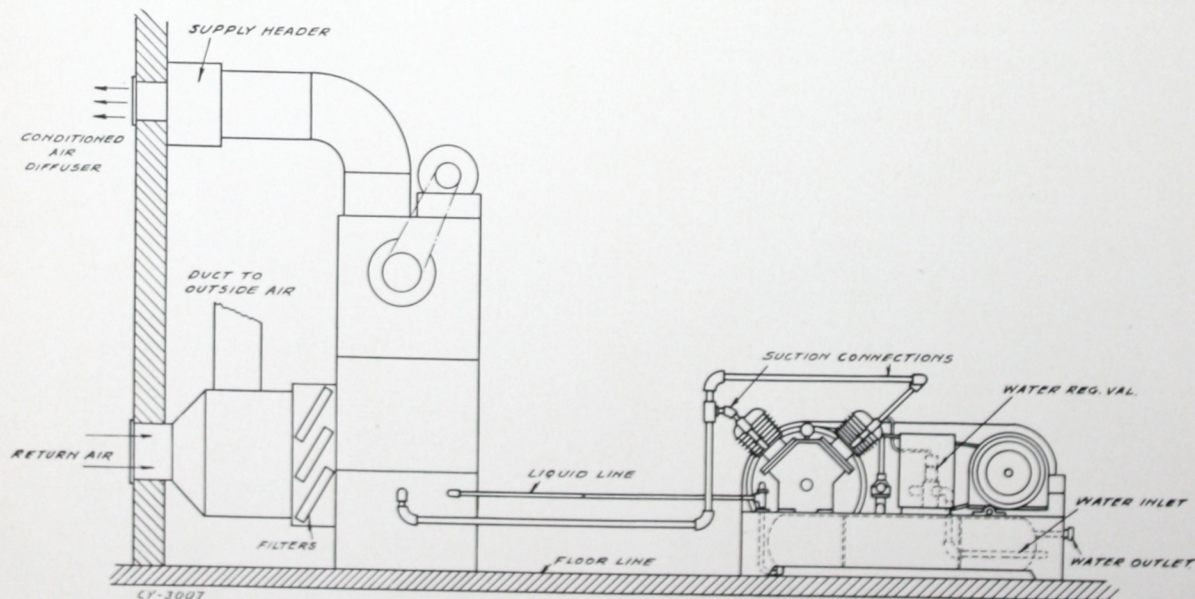
Model No.	Vertical Floor Mounted Type			Horizontal Suspended Type		
	Length	Width	Height	Length	Width	Height
1	4'1"	2'8"	7'0"	5' 8"	4'9"	2'6"
2	5'1"	4'2"	7'8"	6'10"	5'7"	3'1"
3	6'0"	5'2"	8'4"	7'10"	6'7"	4'3"
4	8'9"	5'7"	8'4"	9' 3"	8'0"	4'3"
5	8'9"	5'7"	8'4"	9' 3"	8'0"	4'3"



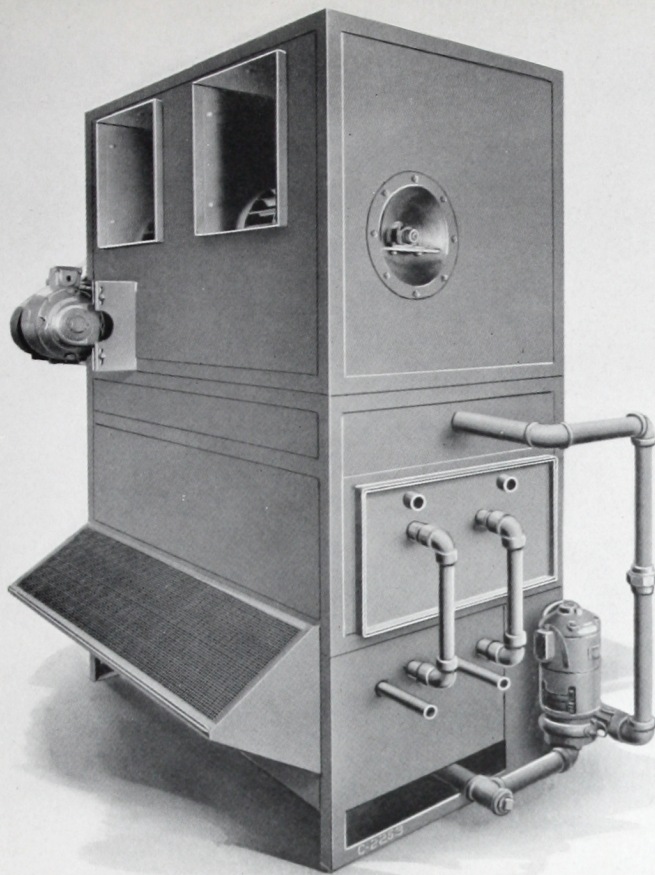
A Typical Carbondale Self-contained 4-Cylinder V-Type Refrigerating Unit used in conjunction with Unit Air Conditioners



Typical office building or hotel installation



Typical system for store



Carbondale Shower Condenser showing spray pump and refrigerant connections

THE CARBONDALE SHOWER CONDENSER

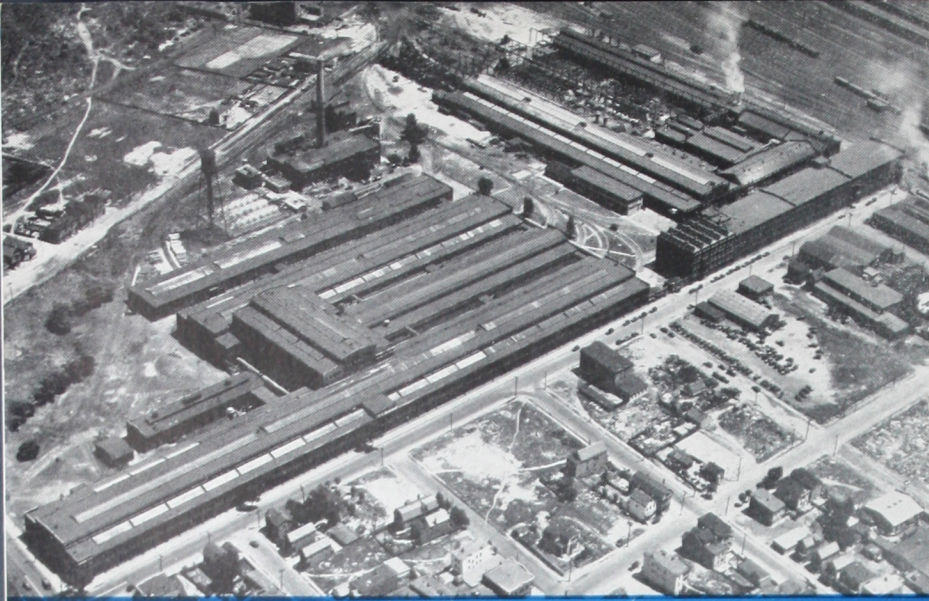
THIS is a combined condenser, receiver and modified cooling tower in one assembly. In a great many places, where water is scarce or expensive, it offers outstanding advantages. Some of the more important ones are as follows:

- Saves from 90 to 100% in cost of water.
- Uses very small service water connections, since the water in the condenser is recirculated.
- Reduces power cost of refrigeration equipment.
- Space requirements are small . . . the equipment may be installed outside or in some remote part of the building.

Carbondale shower condensers are built in separable sections for ease of handling and simplicity of installation. All parts are made easily accessible for cleaning and inspection. Standard condensers are available in sizes from 5 to 50 tons.

SPACE REQUIREMENTS FOR SHOWER CONDENSERS

Model No.	Height	Length	Width	Approximate Tonnage
1	6'3"	4'9"	3'2"	9 tons
2	6'10"	5'9"	3'9"	20 tons
3	8'2"	6'8"	4'10"	30 tons
4	8'2"	9'5"	4'10"	50 tons



Harrison Works

Buffalo Works



AIR conditioning and refrigeration equipment for industrial purposes, comfort conditioning, and any special application

CARBONDALE DIVISION

WORTHINGTON PUMP AND MACHINERY CORPORATION

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